Software Maintenance Release Note

Release sb273-01
For SwitchBlade 4000 Series Switches and
AT-9800 Series Switches

Introduction

This software maintenance release note lists the issues addressed, and enhancements made, in patch SB273-01 for Software Release 2.7.3 on existing models of the SwitchBlade and AT-9800 series switches. Release file details are listed in Table 1.

Table 1: Release file details for release SB273-01.

Base Software Release File	SB-273.rez
Maintenance Release Date	April 22 2005
Compressed Release File Name	SB262-01.rez
Compressed Release File Size	91,532 bytes

This release note should be read in conjunction with the following documents:

■ SwitchBlade document Set for Software Release 2.7.3 (Document Number C613-03100-00 REV A).

■ AT-9800 Series Switches Documentation Set for Software Release 2.7.3 (Document Number C613-03101-00 REV A).

WARNING: Using a patch for a different model or software release may cause unpredictable results, including disruption to the network. Information in this release note is subject to change without notice and does not represent a commitment on the part of Allied Telesyn International. While every effort has been made to ensure that the information contained within this document and the features and changes described are accurate, Allied Telesyn International can not accept any type of liability for errors in, or omissions arising from the use of this information.

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Some of the issues addressed in this Release Note include a level number. This number reflects the importance of the issue that has been resolved. The levels are:

Level 1   This issue will cause significant interruption to network services, and there is no work-around.

Level 2   This issue will cause interruption to network service, however there is a work-around.

Level 3   This issue will seldom appear, and will cause minor inconvenience.

Level 4   This issue represents a cosmetic change and does not affect network operation.

Enabling and installing this Release

To use this maintenance release you must have a base release license for Software Release 2.7.3. Contact your distributor or reseller for more information.

To enable this release and install it as the preferred release, use the commands:

```
enable rel=sb273-01.rez num=2.7.3
set install=pref rel=sb273-01.rez
```

Features in sb273-01

sb273-01.rez includes the following issues resolved and enhancements released:

Level 1

CR00005227   **Module: SWI, RSTP, SWMX,**   **Level: 1**
                    SWCX, SW56

A heavy processor load could lead to queuing RSTP BPDUs, which in turn could lead to even more processor load, resulting in more queued BPDUs. This issue has been resolved by improving the efficiency in the interaction between RSTP TCN BPDUs and the hardware tables.

This issue has been resolved. (PCR number: 40672)

CR00006609   **Module: LB**   **Level: 1**

When failover occurred between a redundant pair of Load Balancing devices, host ARP caches were not updated with the new Master's MAC address, thus causing the hosts to lose connectivity until their ARP caches timed out the stale entry. This issue has been resolved. (No PCR number.)

CR00007034   **Module: Firewall**   **Level: 1**

A reboot could occur while ageing out Firewall sessions when the device was under heavy load and had many active Firewall sessions.

This issue has been resolved. (No PCR number.)

CR00007695   **Module: PPP**   **Level: 1**

When either the Firewall was enabled or multiple L2TP tunnels were configured, and a default route existed over an L2TP tunnel, it was possible for an infinite internal packet loop to be created when a packet was sent over the L2TP tunnel after the underlying interface route to the remote IP had gone down. This caused a reboot to occur.

This issue has been resolved. (No PCR number.)

Level 2

CR00002290   **Module: STP, SWI**   **Level: 2**

Previously, the forwarding database was flushed instead of being aged out when an STP topology change notification was received.

This issue has been resolved. (PCR number: 40185)

CR00002662   **Module: STP**   **Level: 2**

Previously, when a port or ports was moved from one VLAN to another, the switch would reset both STP/RSTP instances that control the VLANs. This behaviour is now changed to only reset the STP process on the STP instance that the port(s) is joining. The switch will now also retain the port(s) edge-port setting during the moving process.

This issue has been resolved.

CR00007341   **Module: IPG**   **Level: 2**

When routers and switches were using CIDR addressing, with a unicast address coinciding with a network broadcast address of class A, B, or C, then they could incorrectly forward traffic as directed broadcasts, even though the traffic was unicast (only).

This issue has been resolved. (PCR number: 50069)

CR00007358   **Module: BRG, FR**   **Level: 2**

When Cisco encapsulation was used on a frame relay interface, the router was not recognising bridged packets. This issue has been resolved.

Also, specifying a logical frame relay interface when adding a bridge port has been explicitly disallowed. (No PCR number.)

CR00007417   **Module: ATM,ENCO**   **Level: 2**

Previously, when the packet overhead limits were exceeded, some packets were being silently dropped by SQoS.

This issue has been resolved.

Additionally, extra checking has been added to the ATM process so that it will explicitly drop, and count, any packets that still exceed the overhead limit. This will aid in the diagnosing of any other cases where packets are being dropped. (No PCR number.)

CR00007428   **Module: ETH**   **Level: 2**

The AR026 4-port Ethernet PIC was not capable of receiving 1519-1522 byte VLAN-tagged packets. Instead, these packets were dropped because they were considered too long.

Also, some early revisions of the AR720 and AR740 were not capable of receiving 1519-1522 byte VLAN-tagged packets.

These issues have been resolved. (PCR number: 50065)

CR00007436   **Module: L2TP**   **Level: 2**

When the router was acting as an L2TP Access Concentrator (LAC) it would fail to negotiate a Virtual tunnel to another vendor's LNS. This was due to invalid Proxy LCP AVPs being used within the ICCN message.

This issue has been resolved. (No PCR number.)

CR00007770   **Module: SWI**   **Level: 2**

On 9800 series switches with GBICs installed, if a GBIC with an active link was physically removed the interface would not go DOWN.

This issue has been resolved. (No PCR number.)

CR00008127   **Module: SWI**   **Level: 2**

When hot-swapping a Switch Blade line card, the trunking information on other line cards could get over-written and cause the switch to stop forwarding traffic.

This issue has been resolved. (No PCR number.)

Level 3

CR00006086   **Module: x25t**   **Level: 3**

IP interfaces over X25 were not operating correctly. This issue has been resolved. (No PCR number.)

CR00007476   **Module: IPG**   **Level: 3**

The DNS relay has been changed to allow the relay of resource record types between 0x1d and 0xff. Previously packets with these types of resource records were dropped.

This issue has been resolved (No PCR number.)

CR00007521 **Module: IPG** **Level: 3**

DVMRP packets were being dropped due to packet length inconsistencies from other vendor devices.

This issue has been resolved. (No PCR number.)

CR00007686 **Module: ATM** **Level: 3**

If ATM is receiving a OAM loopback cell (normal from an ISP) at regular intervals then it may cause a reboot. This fix stops this behaviour and will also stop some other random packet corruption.

This issue has been resolved. (PCR number: 50064)

CR00007716 **Module: LOG** **Level: 3**

Previously, when changing the password on a log output/receive definition to a shorter string, the log message exchange could fail.

This issue has been resolved. (PCR number: 50070)

CR00007760 **Module: SWCX, SWITCH** **Level: 3**

When changing VLAN configuration on the Switchblade, MAC addresses on the ports that move to a new VLAN need to be deleted. This address deletion process has been made significantly more efficient, minimising the impact on general switch operation.

This issue has been resolved. (No PCR number.)

Level 4

CR00006093 **Module: FFS** **Level: 4**

There was not enough information displayed to the user when the ACTIVATE FLASH COMPACTION command was entered at the same time as Flash was compacting.

This issue has been resolved. (No PCR number.)

Enhancements

CR00006652 **Module: IKMP, IPSEC**

Previously ISAKMP NAT-T was enabled by default on every ISAKMP policy created. NAT-T is now disabled by default on every ISAKMP policy. (No PCR number.)

CR00006953 **Module: PPP**

The ability to configure Van Jacobson Header Compression over dynamic PPP interfaces has been added. To this end, the command parameter 'VJC={ON | OFF}' has been added to the CREATE and SET PPP TEMPLATE commands. (No PCR number.)